

WHAT IS CLAIMED IS:

1. An oil pickup apparatus for a hermetic compressor connected with a crank shaft in order to pickup an oil filled up in a lower part of a shell, comprising an oil pickup tube having one end immersed in the oil and being connected with the crank shaft to be rotated together, and the oil pickup tube having an impeller portion integrally formed at the oil pickup tube in order to pickup the oil by a centrifugal force when the crank shaft rotates and supply the oil to an upper part of the compressor.
2. The oil pickup apparatus for a hermetic compressor of claim 1, wherein the impeller portion includes a plurality of unit processing portions having a depressed outer circumference of the oil pickup tube and a protruded corresponding inner circumference.
3. The oil pickup apparatus for a hermetic compressor of claim 2, wherein a plurality of unit processing portions disposed in a circumferential direction of the oil pickup tube, and formed for a predetermined length to be sloped for a predetermined angle in a longitudinal direction of the oil pickup tube.

4. The oil pickup apparatus for a hermetic compressor of claim 1, wherein the impeller portion includes a plurality of bent-up wings formed by cutting the outer circumference of the oil pickup tube as a predetermined type in a diagonal direction, and bending up the cut parts to be protruded to an inner circumference of the oil pickup tube.

5. The oil pickup apparatus for a hermetic compressor of claim 1, wherein the impeller portion includes a plurality of protruding portions formed by cutting an end portion of the oil pickup tube for a predetermined distance in the circumferential direction, and the protruding portions have sloping sides sloped from the end to the inner circumference.

6. The oil pickup apparatus for a hermetic compressor of claim 1, wherein an eccentric portion connected with a connecting rod is disposed at an upper end of the crank shaft, and the oil pickup tube is coaxially connected with a lower end of the crank shaft.

7. The oil pickup apparatus for a hermetic compressor of claim 1, wherein an eccentric portion connected with a connecting rod is disposed at the lower end of the crank shaft, and the oil pickup tube is connected with the eccentric portion.

201020 6210002

8. The oil pickup apparatus for a hermetic compressor of claim 7, wherein the oil pickup tube comprises:

- a straight-type upper tube portion coaxially connected with the eccentric portion;
- a sloping portion extended to be sloped for a predetermined length downwardly from the upper tube portion; and
- a lower tube portion perpendicularly extended from the sloping portion to have a same axis with the crank shaft, and the lower tube portion has the impeller.

9. An oil pickup apparatus for a compressor for picking up an oil filled up in a lower part of a shell, comprising:

- a crank shaft having an eccentric portion connected with a connecting rod at an upper part thereof; and
- an oil pickup tube coaxially connected with a lower end of the crank shaft for a lower end thereof is immersed in the oil, and the oil pickup tube has an impeller portion processed in order to pickup the oil by a centrifugal force when the crank shaft rotates and supply the oil to an upper part of the compressor.

10. An oil pickup apparatus for a compressor for picking up an oil filled up in a lower part of a shell, comprising:

a crank shaft having an eccentric portion connected with a connecting rod at a lower part thereof; and

an oil pickup tube connected with the eccentric portion in order to a lower end thereof is immersed in the oil, and the oil pickup tube has an impeller portion integrally processed at the lower end thereof in order to pickup the oil when the crank shaft rotates and supply the oil to an upper part of the compressor.

204020 52105007